

USES FOR MEDICAL DEVICES HAVING A LUBRICIOUS, NITRIC OXIDE-RELEASING COATING

ABSTRACT

Methods are provided for delivering nitric oxide to the vascular tissue of a patient to
5 inhibit or prevent restenosis or improve vascular function following various surgical procedures
or associated with various NO-related conditions. The disclosed methods comprise contacting
the vascular tissue of a patient with a medical device coated with a coating comprising nitric
oxide associated with and releaseable from a polyurea network formed from the reaction on said
medical device of a polyisocyanate; an amine donor and/or hydroxyl donor; an isocyanatosilane
10 adduct having terminal isocyanate groups and at least one hydrolyzable alkoxy group bonded to
silicon; and optionally a polymer selected from the group consisting of polyethylene oxide,
polyvinyl pyrrolidone, polyvinyl alcohol, polyethylene glycol, and polyacrylic acid.